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SUBSTITUTE FORM PTO-1449 (MODIFIED 7/8/94)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	04005/013003
				Serial No.	08/961,443
				Applicant	Tim M. Townes et al.
				Filing Date	October 30, 1997
				Group	1004 1632
(37 CFR §1.98(b))					

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
DM A	5,602,306	02/11/97	Townes et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
DM B	WO 95/03820	9 Feb. 1995	PCT			
DM C	WO 95/00657	5 Jan. 1995	PCT			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

DM D	Baribault et al., "Embryonic Stem Cell Culture and Gene Targeting in Transgenic Mice", Mol. Biol. Med. 6:481-492 (1989).
E	Behringer et al., "Human γ - to β -globin gene switching in transgenic mice", Genes & Development 4:380-389 (1990).
F	Behringer et al., "Synthesis of Functional Human Hemoglobin in Transgenic Mice", Science 245:971-973 (1989).
G	Ciavatta et al., "Mouse model of human β^0 thalassemia: Targeted deletion of the mouse β^{maj} - and β^{min} -globin genes in embryonic stem cells", Proc. Natl. Acad. Sci. USA 92:9259-9263 (1995).
H	Dillon, N., "Regulating Gene Expression in Gene Therapy", Tibtech 11:167-173 (1993).
I	Fabry et al., "A Second Generation Transgenic Mouse Model Expressing Both Hemoglobin S (HbS) and HbS-Antilles Results in Increased Phenotypic Severity", Blood 86:2419-2428 (1995).
J	Fabry et al., "High expression of human β^S - and α -globins in transgenic mice: Erythrocyte abnormalities, organ damage, and the effect of hypoxia", Proc. Natl. Acad. Sci. USA 89:12155-12159 (1992).
K	Greaves et al., "A transgenic mouse model of sickle cell disorder", Nature 343:183-185 (1990).
L	Gu et al., "Independent Control of Immunoglobulin Switch Recombination at Individual Switch Regions Evidenced Through Cre-LoxP-Mediated Gene Targeting", Cell 73:1155-1164 (1993).
M	Khoury et al., "Parameters Influencing the Expression of Human Hemoglobin in Transgenic Pigs", J. Cell Biochemistry Suppl. 0 (17 Part A), B 362, p. 115 (1993).
N	Lauer et al., "The Chromosomal Arrangement of Human α -Like Globin Genes: Sequence Homology and α -Globin Gene Deletions", Cell 20:119-130 (1980).
O	Logan et al., "Transgenic Swine as a Recombinant Production System for Human Hemoglobin", Methods in Enzymology 231:435-445 (1994).

EXAMINER

DATE CONSIDERED

7/16/99

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

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SUBSTITUTE FORM PTO-1499 (MODIFIED 5-1-92) <i>TRADEMARK FILING</i>				U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Attorney Docket No.	04005/013003		
				Serial No.	08/961,443		
				Applicant	Tim M. Townes et al.		
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Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
TDM P	Nagy et al., "Derivation of completely cell culture-derived mice from early-passage embryonic stem cells", Proc. Natl. Acad. Sci. USA 90:8424-8428 (1993).						
Q	Paszty et al., "Lethal α -thalassaemia Created by Gene Targeting in Mice and Its Genetic Rescue", Nature Genetics 11:33-39 (1995).						
R	Popp et al., "A Transgenic Mouse Model of Hemoglobin S Antilles Disease", Blood 89:4204-4212 (1997).						
S	Rhoda et al., "Mouse α chains inhibit polymerization of hemoglobin induced by human β^S or β^S Antilles chains", Biochimica et Biophysica Acta 952:208-212 (1988).						
T	Ryan et al., "Human Sickle Hemoglobin in Transgenic Mice", Science 247:566-568 (1990).						
U	Sharpe et al., "Analysis of the Human α Globin Upstream Regulatory Element (HS-40) in Transgenic Mice", European Journal of Molecular Biology 11:4565-4571 (1992).						
V	Stacey et al., "Use of Double-Replacement Gene Targeting to Replace the Murine α -Lactalbumin Gene with Its Human Counterpart in Embryonic Stem Cells and Mice", Molecular and Cellular Biology 14:1009-1016 (1994).						
W	Swanson et al., "Production of Functional Human Hemoglobin in Transgenic Swine", BioTechnology 10:557-559 (1992).						
X	Townes et al., "Erythroid-specific expression of human β -globin genes in transgenic mice", The EMBO Journal 4:1715-1723 (1985).						
Y	Trudel et al., "Sickle Cell Disease of Transgenic SAD Mice", Blood 84:3189-3197 (1994).						
Z	Trudel et al., "Towards a transgenic mouse model of sickle cell disease: hemoglobin SAD", The EMBO Journal 10:3157-3165 (1991).						
AA	Tybulewicz et al., "Neonatal Lethality and Lymphopenia in Mice with a Homozygous Disruption of the c-abl Proto-Oncogene", Cell 65:1153-1163 (1991).						
AB	Yang et al., "A mouse model for β^0 -thalassemia", Proc. Natl. Acad Sci USA 92:11608-11612 (1995).						
EXAMINER <i>Tim Martin</i>	DATE CONSIDERED <i>7/16/99</i>						
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.							